

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.





1  
W37 Ra  
39

LIBRARY  
RECEIVED

★ JUN 14 1928 ★

U. S. DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

## RADIO DISTRIBUTION OF WEATHER FORECASTS AND INFORMATION

The Weather Bureau now has the cooperation of 166 of the country's leading radiophone broadcasting stations. These radio stations make daily broadcasts of weather forecasts and other meteorological information of value to the public. Each station broadcasts the forecasts for the State in which it is located; but, in a large number of cases, forecasts for adjacent States are also included. Broadcasts are made on regular schedules and, in most instances, more than once a day, many stations giving both the morning and night forecasts.

The State forecasts are broadcast from every station on daily schedules. However, in addition thereto, as conditions warrant, local weather and river reports, weather and crop reports, warnings of storms, hurricanes, cold waves, frosts, heavy snows, special forecasts for aid in fruit spraying, protection of forests against fires, etc., are included. Information and forecasts of interest to aviation and navigation is also broadcast from radio stations which are advantageously located for such purposes.

The broadcasting of weather data by radiotelegraphy dates back to the first wireless telegraph station operations. At the present time the Weather Bureau has the cooperation of 59 of the most powerful stations of this character. Of these, the United States Navy operates 34, 15 being on the Atlantic, 1 on the Great Lakes, 9 on the Gulf of Mexico, and 8 on the Pacific. The remaining 26 stations are operated by private and commercial wireless companies. The broadcasting services from the radiotelegraph stations consists of weather reports from ship and land stations, upper air observations, weather forecasts for aviation flying regions and the coastal areas concerned, and storm warnings and advices. Some stations give weather information to vessels only upon request; others broadcast storm and hurricane warnings only when issued, followed by suitable repetitions. The portion of the broadcast bulletins containing weather reports from certain stations of the Weather Bureau is in coded form. These bulletins are of importance to navigation and aviation interests. Weather maps may be prepared at sea by using these coded portions of the broadcast weather bulletins, and base maps for the purpose will be furnished free to ship masters. Complete descriptions of the radiotelegraph service and the methods of decoding are contained in the radio circulars issued by the Weather Bureau as follows: No. 10, dated April 15, 1926; No. 13, dated July 15, 1925; No. 14, dated September 15, 1927; and No. 15, dated April 1, 1927.



The following is a list of the cooperating radio stations with their locations, call letters, assigned frequencies and wave lengths, and the hours of broadcasting (local time), corrected to July 1, 1927. The radiophone and radiotelegraph stations are listed separately:

### BY RADIOPHONE

Location of station	Call letters of stations	Frequency (kilo-cycles)	Wave length (meters)	Local time at which broadcasts are made
Altoona, Pa.	WFBG	1,070	280.2	10.30 p. m.
Amarillo, Tex.	KGRS	1,230	243.8	10 a. m.
Ames, Iowa	WOI	1,130	265.3	9.30 a. m., 12.45 and 9.30 p. m.
Arlington, Va.	NAA	(See Washington, D. C.)		
Atlanta, Ga.	WSB	630	475.9	11.55 a. m. and 10 p. m.
Auburn, Ala.	WAPI	920	325.9	10 a. m. and 12 noon.
Baltimore, Md.	WCAO	780	384.4	10 p. m.
	WCBM	780	384.4	Do.
	WFBR	1,330	225.4	12 noon, 7 and 10 p. m.
Beaumont, Tex.	KFDM	800	374.8	11 a. m.
Bismarck, N. Dak.	KFYR	1,250	239.9	1.15 p. m. and 7.15 p. m.
Boise, Idaho	KFAU	1,050	285.5	3.15 p. m.
Boston, Mass.	WBZA	900	333.1	10 p. m.
	WEEI	670	447.5	11.15 a. m., 2 and 10 p. m.
	WNAC	850	352.7	10.53 a. m. and 6.30 p. m.
Boundbrook, N. J.	WJZ	(See New York, N. Y.)		
Bridgeport, Conn.	WICC	1,400	214.2	12 noon and 5 p. m.
Bristow, Okla.	KVOO	860	348.6	12 noon and 8.50 p. m.
Brookings, S. Dak.	KFDY	760	394.5	12.15 p. m.
Brownsville, Tex.	KWWG	1,080	277.6	12 noon, 4.30 and 6 p. m.
Buffalo, N. Y.	WGR	940	319	12 noon, 7.30 and 11 p. m.
	WMAK	550	545.1	12 noon.
Canton, N. Y.	WCAD	820	365.6	11 a. m.
Charlotte, N. C.	WBT	1,160	258.5	Do.
Chattanooga, Tenn.	WDOD	1,220	245.8	9.30 p. m.
Chicago, Ill.	KYW	570	526	11 a. m. and 11.55 p. m.
	WAAF	770	389.4	10.30 a. m. and 12.30 p. m.
	WBBM	770	389.4	5.45 p. m.
	WEBH	820	365.6	9.45 p. m.
	WHT	720	416.4	12.40 p. m. and 11.05 p. m.
	WLS	870	344.6	9 a. m. and 12.10 p. m.
Cincinnati, Ohio	WLW	700	428.3	11 a. m., 12 noon, 6.45 and 10 p. m.
Clay Center, Nebr.	KMMJ	790	337.5	9.30 a. m., 12.30 and 7 p. m.
Cleveland, Ohio	WEAR	750	399.8	12 noon and 4 p. m.
Columbia, Mo.	KFRU	1,200	249.9	5 p. m.
Columbus, Ohio	WAIU	1,060	282.8	11.30 a. m.
	WEAO	1,060	282.8	12.30 p. m.
Concordia, Kans.	KGCN	1,440	208.2	12.35 and 7.05 p. m.
Council Bluffs, Iowa	KOIL	1,080	277.6	9.45 a. m., 12.15 p. m. and 9.45 p. m.
Crete, Ill.	WLS	(See Chicago, Ill.)		
Dallas, Tex.	KRLD	1,350	222.1	12.30 and 9.30 p. m.
	WFAA	600	499.7	10.30 a. m., 12.30 p. m., 6.45 p. m. and 9.30 p. m.
	WRR	850	352.7	12 noon and 6.00 p. m.
Davenport, Iowa	WOC	850	352.7	1.00 and 9 p. m.
Dayton, Ohio	WSMK	1,010	296.9	10 a. m. and 3 p. m.
Deerfield, Ill.	WHT	(See Chicago, Ill.)		
Denver, Colo.	KLZ	1,120	267.7	8.30 a. m. and 7.55 p. m.
	KOA	920	325.9	11.45 a. m.
De Pere, Wis.	WHBY	(See Green Bay, Wis.)		
Des Moines, Iowa	WHO	560	535.4	9.45 a. m., 12 noon and 9 p. m.
Detroit, Mich.	WCX	580	516.9	4 p. m.
	WGHP	940	319	6.45 p. m.
	WJR	580	516.9	Do.
	WWJ	850	352.7	10.25 and 11.55 a. m., 3.50 p. m.
Devils Lake, N. Dak.	KDLR	1,300	230.6	12.20 p. m.
Duluth, Minn.	WEBC	1,240	241.8	1.15 and 7 p. m.
East Lansing, Mich.	WKAR	(See Lansing, Mich.)		
Eau Claire, Wis.	WTAQ	1,180	254.1	10.30 a. m., 12.15 and 9 p. m.
Escanaba, Mich.	WRAK	1,060	282.8	2 p. m.
Evansville, Ind.	WGBF	1,270	236.1	12.10 p. m.
Fargo, N. Dak.	WDAY	830	361.2	10.30 a. m.
Fond du Lac, Wis.	KFIZ	1,120	267.7	5 p. m.
Fort Wayne, Ind.	WOWO	1,310	228.9	12 noon.
Fort Worth, Tex.	WBAP	600	499.7	10 a. m. and 9.30 p. m.
Galveston, Tex.	KFUL	1,160	258.5	1 and 2 p. m.
Grand Rapids, Mich.	WASH	1,170	256.4	12.15 p. m.
Green Bay, Wis.	WHBY	1,200	249.9	6 p. m.
Hartford, Conn.	WTIC	630	475.9	12 noon and 10 p. m.
Harve, Mont.	KFBB	1,090	275.1	12.30 p. m.
Hot Springs, Ark.	KTHS	780	384.4	9.45 a. m. and 9.30 p. m.
Houston, Tex.	KPRC	1,020	293.7	11 a. m., 12 noon and 9.30 p. m.



## BY RADIOPHONE—Continued

Location of station	Call letters of stations	Frequency (kilo-cycles)	Wave length (meters)	Local time at which broadcasts are made
Indianapolis, Ind.	WFBM	1,090	275	12 noon.
	WKBF	1,190	252	10.30 a. m.
Jacksonville, Fla.	WJAX	890	336.9	12 noon.
Jefferson City, Mo.	WOS	640	468.5	11 a. m.
Kansas City, Mo.	WDAF	810	370.2	5.55 p. m.
	WHB	890	336.9	10.40 a. m., 12.15 and 3 p. m.
Knoxville, Tenn.	WNOX	1,130	265.3	12 noon.
La Crosse, Wis.	WKBH	1,360	220.4	12.10 p. m.
La Fayette, Ind.	WBAA	1,100	272.6	9.50 a. m.
Lansing, Mich.	WKAR	1,050	285.5	11 a. m.
Laramie, Wyo.	KFBU	700	428.3	12.30 p. m.
La Salle, Ill.	WJBC	1,320	227.1	12 noon.
Le Mars, Iowa	KWVC	(See Sioux City, Iowa.)		
Lincoln, Nebr.	KFAB	970	309.1	9.30 a. m.
Lockport, N. Y.	WMAK	(See Buffalo, N. Y.)		
Los Angeles, Calif.	KFI	640	468.5	5.15 p. m. and 9.10 p. m.
	KHJ	740	405.2	12.20, 8.30, and 11 p. m.
Louisville, Ky.	WHAS	650	461.3	1.45, 4 and 7.32 p. m.
Madison, Wis.	WHA	940	319	2 p. m.
Manhattan, Kans.	KSAC	900	333.1	12.35 p. m.
Memphis, Tenn.	WMC	580	516.9	12 noon, 2.30 and 9.30 p. m.
Miami, Fla.	WQAM	930	322.4	12 noon.
Milford, Kans.	KFKB	1,240	241.8	9.30 a. m., 12 noon and 10.30 p. m.
Milwaukee, Wis.	WHAD	1,020	293.9	10.30 a. m. and 2.15 p. m.
	WSOE	1,110	270.1	2.45 and 5.45 p. m.
	WTMJ	1,020	293.9	10.15 a. m. and 2 p. m.
Minneapolis, Minn.	WAMB	1,330	225.4	11 a. m. and 6.57 p. m.
	WCCO	740	405.2	9.40 and 10.30 a. m., and 1.30 and 9 p. m.
	WRHM	1,150	260.7	11 a. m.
Missoula, Mont.	KUOM	800	374.8	12 noon.
Mount Clemens, Mich.	WGHP	(See Detroit, Mich.)		
Nashville, Tenn.	WDAD	1,330	225.4	3.30 p. m.
	WSM	880	340.7	10 p. m.
New Haven, Conn.	WDRC	1,090	275.1	11.30 a. m.
New Orleans, La.	WSMB	930	322.4	12.30 p. m.
New York, N. Y.	WABC	920	325.9	12 noon and 10 p. m.
	WBOQ	920	325.9	10 p. m.
	WJZ	660	454.3	2 p. m.
	WNYC	560	535.4	10.30 p. m.
Norfolk, Nebr.	WJAG	1,350	222.1	12.15 and 5.30 p. m.
Norfolk, Va.	WTAR	1,090	275.1	6 p. m.
Norman, Okla.	WNAD	1,250	239.9	2 and 9.15 p. m.
Oakland, Calif.	KGO	(See San Francisco, Calif.)		
	KLX	(See San Francisco, Calif.)		
Oklahoma City, Okla.	KFJF	1,100	272.6	9.40 a. m., 12.15 and 10 p. m.
Omaha, Nebr.	WOW	590	508.2	10.30 a. m., 1.45 and 10 p. m.
Orlando, Fla.	WDBO	1,040	288.3	6 p. m.
Pensacola, Fla.	WCOA	1,200	249.9	10.30 a. m. and 12 noon.
Philadelphia, Pa.	WIP	590	508.2	1.30 and 7 p. m.
	WOO	590	508.2	11.30 a. m. and 10.02 p. m.
Pittsburgh, Pa.	KDKA	950	315.6	9.45 a. m., 12 noon, and 10 p. m.
	WCAE	580	516.9	12.30 p. m.
Pocatello, Idaho	KSEI	900	333.1	3.30 p. m.
Pontiac, Mich.	WJR	(See Detroit, Mich.)		
Portland, Me.	WCSH	830	361.2	12 noon and 6.30 p. m.
Portland, Oreg.	KEX	1,250	239.9	12 noon, 9 p. m., and 12 midnight.
	KFEC	1,400	214.2	12 noon and 6.30 p. m.
	KGW	610	491.5	10.30 a. m. and 7.30 p. m.
	KOIN	940	319	11 a. m. and 9 p. m.
Providence, R. I.	WEAN	940	319	12.10 and 4.30 p. m.
	WJAR	620	483.6	1.30 p. m.
Raleigh, N. C.	WRCO	1,330	217.3	5.50 p. m.
Rapid City, S. Dak.	WCAT	1,210	247.8	9.30 a. m. and 11.30 a. m.
Richmond Hill, N. Y.	WABC	(See New York, N. Y.)		
	WOBQ	(See New York, N. Y.)		
Rochester, N. Y.	WHAM	1,080	277.9	7.30 p. m.
	WHEC	1,290	232.4	12 noon.
	WOKT	1,430	209.7	11 p. m.
Sacramento, Calif.	KFBK	560	535.4	7.30 p. m.
St. Joseph, Mo.	KFEQ	1,300	230.6	10.15 a. m. and 12.15 p. m.
	KGBX	1,040	288.3	12.45 p. m.
St. Louis, Mo.	KMOX	1,000	299.8	10 p. m.
	KSD	550	545.1	10.45 a. m. and 10 p. m.
	WEW	850	352.7	10 a. m., 2 and 5 p. m.
St. Petersburg, Fla.	WJBB	870	344.6	1 p. m.
Salt Lake City, Utah	KSL	990	302.8	7.35 p. m.
San Angelo, Tex.	KGFI	1,360	220.4	12 noon and 8 p. m.
San Antonio, Tex.	KTAP	1,310	228.9	10.30 a. m. and 12.30 p. m.
	WOAI	990	302.8	10 a. m., 12.15, 3, and 6.15 p. m.



## BY RADIOPHONE—Continued

Location of station	Call letters of stations	Frequency (kilo-cycles)	Wave length (meters)	Local time at which broadcasts are made
San Francisco, Calif.	KFWI	1,120	267.7	10 a. m. and 10 p. m.
	KGO	780	384.4	1.45 p. m. and 7.03 p. m.
	KLX	590	508.2	7 p. m.
	KPO	710	422.3	10.35 a. m.
San Jose, Calif.	KQW	1,010	296.9	7 p. m.
Santa Maria, Calif.	KSMR	1,100	272.6	7.45 p. m.
Schenectady, N. Y.	WGY	790	379.5	11.45 a. m.
Scranton, Pa.	WQAN	1,300	230.6	12.30 and 4 p. m.
Seattle, Wash.	KTCL	1,080	277.6	9.30 a. m. and 7.30 p. m.
	KJR	860	348.6	11.30 a. m. and 8.25 p. m.
	KFOA	670	447.5	8.15 p. m.
Shenandoah, Iowa	KFNF	1,110	270.1	12.55 and 9 p. m.
Sioux City, Iowa	KWVC	1,230	243.8	10.30 a. m. and 12.30 p. m.
	KSCJ	1,230	243.8	9.45 and 10.45 a. m., 12 noon, and 6.30 p. m.
Spokane, Wash.	KHQ	810	370.2	12.30 p. m.
Springfield, Mass.	WBZ	900	333.1	10 p. m.
State College, N. Mex.	KOB	760	394.5	11.55 a. m. and 9.55 p. m.
Stevens Point, Wis.	WLBL	940	319	9, 10, and 11 a. m., and 12 noon and 1 p. m.
Superior, Wis.	WEBC	(See Duluth, Wis.)		
Syracuse, N. Y.	WFBL	1,160	258.5	1 p. m.
Tampa, Fla.	WJBB	870	344.6	12 noon.
	WMBR	1,190	252	1 p. m.
Topeka, Kans.	WIBW	1,470	204	12 noon.
Trenton, N. J.	WOAX	1,250	239.9	11 a. m. and 12.15 p. m.
Walla Walla, Wash.	KOWW	1,000	299.8	7 p. m.
Washington, D. C.	NAA	690	434.5	10.05 a. m., 3.45 and 10.05 p. m.
Wichita, Kans.	KFH	1,220	245.8	10 p. m.
Yankton, S. Dak.	WNAX	990	302.8	11.40 a. m.

## BY RADIOTELEGRAPH

Almirante, Panama	UB	73.5	4,075	12.30 p. m. and 11.45 p. m.
Annapolis, Md.	NSS	17.5	17,130	12 midnight.
Arlington, Va.	NAA	4,015	74.8	8.15 a. m.
	NAA	8,030	37.3	Do.
	NAA	12,045	24.9	Do.
	NAA	113	2,655	10.30 a. m. and 10.30 p. m.
Baltimore, Md.	WMH	419.5	715	10.15 a. m.
Blunt's Reef, Calif. (Lightship.)	WWBU	299.8	1,000	8 a. m., 12 noon, 8.10 p. m.
Boston, Mass.	NAD	220	1,363	11 a. m.
Brownsville, Tex.	NAY	70	4,283	Do.
Buffalo, N. Y.	WAM	419.5	715	11 a. m. and 10 p. m.
Charleston, S. C.	NAO	108	2,776	10.30 a. m. and 6 p. m.
Chatham, Mass.	WCC	136.3	2,200	9 a. m. and 5 p. m.
Chicago, Ill.	WGO	337	890	11 a. m., 4 p. m., and 9 p. m.
Cleveland, Ohio	WCY	342	875	10.30 p. m.
	WTK	419.5	715	11.05 a. m., 4 p. m., 10.10 p. m.
Columbia River, Oreg. (Lightship.)	WWBQ	299.8	1,000	8 a. m., 12 noon, 8.10 p. m.
Detroit, Mich.	WDI	419.5	715	11 a. m., 4 and 10 p. m.
Duluth, Minn.	WME	419.5	715	10 a. m. and 4 p. m.
	WRL	342	875	10 a. m. and 10 p. m.
Dutch Harbor, Alaska	NPR	133	2,254	9.30 a. m. and 9.30 p. m.
East Hampton, N. Y.	WSA	480	625	On request from ships only.
East Moriches, N. Y.	WSH	133	2,254	Do.
Ensenada, Porto Rico	WPR	499.7	600	When issued.
Eureka, Calif.	NPW	375	800	9 a. m. and 5.30 p. m.
Galveston, Tex.	PGV	361.2	830	10.30 a. m.
Great Lakes, Ill.	NAJ	132	2,270	9.45 a. m. and 10 p. m.
Guantanamo, Cuba	NAW	118	2,541	9 p. m. and when issued.
Honolulu, Hawaii	NPM	54	5,552	10.30 a. m., 2.30 and 10.30 p. m.
Jupiter, Fla.	NAQ	132	2,271	11.30 a. m.
Key West, Fla.	NAR	205	1,463	12 noon and 10 p. m.
	NAR	60	5,766	10 p. m.
Mackinac Island, Mich.	WHQ	342	875	10.15 a. m. and 4.15 p. m.
Nahant, Mass.	NCP	2,306	130	10.45 a. m. and 4 p. m.
New Orleans, La.	NAT	106	2,830	9 and 10 a. m. and 4 p. m.
	WNU	90	3,331	10.30 a. m., 9 and 10.30 p. m.
New York, N. Y.	NAH	195	1,538	10.30 a. m. and 5 p. m.
	WCG	441	680	On request from ships only.
Norfolk, Va.	NAM	220	1,363	8.30 and 10.45 a. m., 8.30 p. m.
Northhead, Wash.	NPE	110	2,726	9.30 a. m., 1.30, 5.30 and 8.30 p. m.
North Truro, Mass.	NAE	374.8	800	8 a. m. and 5 p. m.
Pensacola, Fla.	NAS	225	1,333	10.45 a. m.
Philadelphia, Pa.	NAI	230	1,304	Do.
Port Arthur, Tex.	WPA	399.8	750	Do.



## BY RADIOTELEGRAPH—Continued

Location of station	Call letters of stations	Frequency (kilo-cycles)	Wave length (meters)	Local time at which broadcasts are made
Port au Prince, Haiti...	NSC	132	2, 271	When issued.
Puget Sound, Wash....	NPC	(See Seattle, Wash.)		
Rockaway Beach, N.Y.	NCG	2, 306	130	11.30 a. m. and 11.30 p. m.
	NCG	2, 099	143	Do.
Rogers, Mich.....	WLO	447.5	670	7.45 and 9.45 a. m., and 3.45 and 7.45 p. m.
St. Augustine, Fla.....	NAP	128	2, 342	11.30 a. m.
St. Croix, Virgin Islands.	NNI	681.8	438	When issued.
St. Johns, Virgin Islands.	NBO	500	600	When issued.
St. Thomas, Virgin Islands.	NBB	132	2, 270	Do.
San Diego, Calif.....	NPL	102	2, 940	8.30 a. m., 2 and 8.30 p. m.
San Francisco, Calif. (Lightship.)	WWBV	299.8	1, 000	8 a. m., 12 noon and 8.10 p. m.
San Francisco, Calif....	KPH	126.3	2, 375	9.20 a. m.
	KPH	424	706	9.10 a. m.
	NPG	42.8	7, 005	9 a. m. and 7.30 p. m.
	NPG	108	2, 776	8 a. m., 12 noon, 4, 7.30, and 10 p. m.
San Juan, P. R.....	NAU	48	6, 246	8.45 p. m.
	NAU	106	2, 830	10 p. m.
Santo Domingo, Dominican Republic.	HIA	499.7	600	When issued.
Savannah, Ga.....	NEV	210	1, 428	11 a. m.
Seattle, Wash.....	NPC	118	2, 541	9 a. m., 1, 5, and 10 p. m.
Swiftsure, Wash. (Lightship.)	WWBO	299.8	1, 000	8 a. m., 12 noon and 8.10 p. m.
Tatoosh Island, Wash.	NPD	374.8	800	5 and 9 a. m., 1, 5, and 10 p. m.
Tuckerton, N. J.....	WSC	461.3	650	9 a. m. and 5 p. m.
Umatilla Reef, Wash. (Lightship.)	WWBP	299.8	1, 000	8 a. m., 12 noon, and 8.10 p. m.
Washington, D. C.....	NAA	(See Arlington, Va.)		
	NKF	8, 030	37.3	4.30 p. m.











